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U. S. Department of Agriculture - Forest Service  
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 41.

November 1, 1941

VOLUME TABLE 1/

for

SHAGBARK, PIGNUT, AND BITTERNUT HICKORIES

(Hicoria ovata, H. glabra, & H. cordiformis)

Fike, Ross, Monroe, Gallia, Coshocton, Medina, Richland and  
Holmes Counties, Ohio

Merchantable Stem to a Variable Top Diameter					INTERNATIONAL Rule ( $\frac{1}{4}$ " Kerf)	
Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height				Top d.i.b. at merchantable limit	Basis in trees
	1	2	3	4		
	log	logs	logs	logs		
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Inches	Number
9	21	37			7.3	14
10	27	47	65		7.6	
11	33	58	81		7.9	
12	41	71	99	126	8.3	31
13	49	86	119	151	8.7	
14	58	102	141	179	9.1	
15	68	119	166	209	9.5	24
16	79	138	192	243	10.0	
17		158	220	279	10.4	
18		181	251	318	10.9	14
19		205	284	360	11.4	
20		230	320	405	11.9	
21			357	452	12.5	7
22			398	504	13.0	
23				557	13.5	
24				614	14.0	-
25				674	14.6	
26				738	15.1	
27				805	15.7	1
28				875	16.2	

Basis in trees-- number	26	24	50	13	--	113
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1/ Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths, and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .991. Band of the standard error of estimate, 90.2 to 110.9 percent. Block shows limits of basic data. Statistical assistance furnished by personnel of WPA Official Project No. 65-2-42-296.

The total estimated gross volume of single hickory trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through experience of sawmill operators as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer

